

8th Grade Science Pacing Guide

UNIT	STRAND (Suggested Number of Days)	# of Days (Total with review and assessment)	Essential Standards	Clarifying Objectives	Textbook Correlation by Chapters
Scientific Inquiry	Scientific Inquiry: <ul style="list-style-type: none"> •Beginning of Year (2) •Scientific Method (4) •Observations and Inference (3) 	9	n/a	n/a	n/a
Matter and Energy	Matter: <ul style="list-style-type: none"> •Periodic table: atoms and elements (8) •compounds, and mixtures (8) •Physical vs. chemical changes (7) •Reactions (6) •Law of conservation of mass (4) 	33 (35)	8.P.1	8.P.1.1 8.P.1.2 8.P.1.3 8.P.1.4	8th grade Unit D Ch. 1-4
	Energy for Food: <ul style="list-style-type: none"> •Cells (2) •Photosynthesis/Plants (1) •Cellular Respiration (1) •Movement of Energy (3) •Food/Digestion (2) •Energy Balance/Metabolism (2) 	13 (15)	8.L.5	8.L.5.1 8.L.5.2	7th grade Unit B Ch. 2
Ecosystems	Ecosystems: <ul style="list-style-type: none"> •Abiotic factors (1) •Population (3) •Ecosystems/Relationships (5) •Cycling of matter (2) •Food web/chains (3) 	14 (16)	8.L.3	8.L.3.1 8.L.3.2 8.L.3.3	6th grade Unit D Ch. 1-2
Disease and Biotechnology	Agents of Disease: <ul style="list-style-type: none"> •bacteria, virus, fungi, parasite (5) •epidemic vs. pandemic (5) 	13 (15)	8.L.1	8.L.1.1 8.L.1.2	8th grade Unit E Ch. 5
	Biotechnology: <ul style="list-style-type: none"> •Btraditional/different types/tools (4) •Careers(1) •Everyday uses (1) 	8 (10)	8.L.2	8.L.2.1	No textbook correlation
Hydrosphere	Hydrosphere: <ul style="list-style-type: none"> •Water Properties (3) •Water Distribution (1) •Water Cycle (1) •World Climate/Effects (1) •River Basin (2) •Health Quality Pollution (6) •Water Treatment (2) •Water Supply (2) •Salinity/Hydrothermal Vents/Nutrients/Gas/Zones (2) •Currents/Upwelling (2) •Estuaries (2) •Ecosystems (3) 	35 (37)	8.E.1	8.E.1.1 8.E.1.2 8.E.1.3 8.E.1.4	8th grade Unit C Ch. 1-4

	<ul style="list-style-type: none"> •Deep Ocean Technology (2) •Marine Resources (2) 				
Earth History and Evolution	Earth History and Evolution and Genetics: <ul style="list-style-type: none"> •Plate Techtonics (1) •Rock Layers (2) •Absolute Dating (2) •Fossil Types (2) •Geologic time scale (3) •Evidence that supports change over time (2) •Diversity and Variation (2) •Taxonomy (2) •Natural Selection (2) 	22 (24)	8.E.2 8.L.4	8.E.2.1 8.E.2.2 8.L.4.1 8.L.4.2	8th grade Unit A Ch. 1-2 Unit B Ch. 1-2
Energy	Energy Conservation and Transfer: <ul style="list-style-type: none"> •Environmental Consequences (2) •Renewable vs. Non-renewable (2) 	4 (6)	8.P.2	8.P.2.1 8.P.2.2	8th grade Unit A Ch. 3
EOG	EOG Review	5	n/a	n/a	n/a
	EOG/retakes/Finals	8	n/a	n/a	n/a